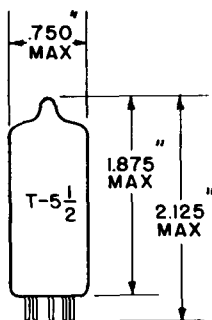


TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2

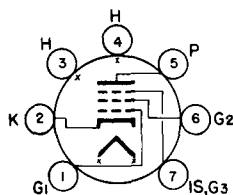
COATED UNIPOTENTIAL CATHODE

FOR

IF AND RF APPLICATIONS IN

T.V. RECEIVERS

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 7CM

THE 6CF6 IS A SHARP CUT-OFF PENTODE ESPECIALLY DESIGNED FOR USE IN GAIN CONTROLLED VIDEO *IF* STAGES OPERATING AT FREQUENCIES IN THE ORDER OF 40 MEGACYCLES. IT IS ALSO WELL SUITED FOR USE AS AN *RF* AMPLIFIER IN *VHF* TELEVISION TUNERS. IT FEATURES CONTROLLED PLATE-CURRENT CUT-OFF AND VERY HIGH TRANSCONDUCTANCE COMBINED WITH LOW CAPACITANCE VALUES.

DIRECT INTERELECTRODE CAPACITANCES

	WITH SHIELD ^A	WITHOUT SHIELD	
GRID TO PLATE: (G ₁ TO P) MAX.	→ 0.015	→ 0.025	pf
INPUT: G ₁ TO (H+K+G ₂ +G ₃ +I.S.)	6.5	6.5	pf
OUTPUT: P TO (H+K+G ₂ +G ₃ +I.S.)	3.0	2.0	pf

^AEXTERNAL SHIELD 316 CONNECTED TO PIN 2.

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	300	MA.
HEATER SUPPLY LIMITS:			
VOLTAGE OPERATION		6.3±0.6	VOLTS
MAXIMUM HEATER CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		→ 200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC		→ 100	VOLTS
TOTAL DC AND PEAK		→ 200	VOLTS

→ INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	330	VOLTS
GRID #2 VOLTAGE	SEE RATING CHART	
GRID #2 SUPPLY VOLTAGE	330	VOLTS
PLATE DISSIPATION	→ 2.3	WATTS
GRID #2 DISSIPATION	0.55	WATT
POSITIVE DC GRID #1 VOLTAGE	0	VOLTS

→ TYPICAL OPERATING CHARACTERISTICS

CLASS A₁ AMPLIFIER

PLATE VOLTAGE	125	VOLTS
GRID #2 VOLTAGE	125	VOLTS
GRID #3 VOLTAGE	PIN 7 CONNECTED TO PIN 2 AT SOCKET	
CATHODE BIAS RESISTOR	56	OHMS
PLATE RESISTANCE (APPROX.)	0.3	MEGOHM
TRANSCONDUCTANCE	7800	μMHOS
PLATE CURRENT	12.5	MA.
GRID #2 CURRENT	3.7	MA.
GRID #1 VOLTAGE (APPROX.) FOR $i_b = 20 \mu A$	-6.0	VOLTS
PLATE CURRENT AT $E_{c1} = -3V$, $R_k = 0$	2.2	MA.

→ INDICATES A CHANGE.

